

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

APPLICATION TO DRILL ☒ DEEPEN ☐ PLUG BACK ☐

NAME OF COMPANY OR OPERATOR MO Geol Survey DATE 1-77
PO Box 250 Rolla MO
 Address City State

DESCRIPTION OF WELL AND LEASE

Name of lease <u>ERDA TS</u>	Well number <u>NO 11-5</u>	Elevation (ground) <u>922</u>																																								
WELL LOCATION (give footage from section lines) <u>2700</u> ft. from (N) (S) sec. line <u>27</u> ft. from (E) (W) sec. line																																										
WELL LOCATION Section <u>13</u> Township <u>33N</u> Range <u>32W</u>		County <u>Barton</u>																																								
Nearest distance from proposed location to property or lease line: _____ feet		Distance from proposed location to nearest drilling, completed or applied - for well on the same lease: _____ feet																																								
Proposed depth: <u>155</u>	Rotary or Cable tools	Approx. date work will start																																								
Number of acres in lease:	Number of wells on lease, including this well, completed in or drilling to this reservoir: _____ Number of abandoned wells on lease: _____																																									
If lease, purchased with one or more wells drilled, from whom purchased: Name _____ Address _____		No. of Wells: producing _____ inactive _____ abandoned _____																																								
Status of Bond Single Well <input type="checkbox"/> Amt. _____ Blanket Bond <input type="checkbox"/> Amt. _____																																										
<input type="checkbox"/> ON FILE <input type="checkbox"/> ATTACHED																																										
Remarks: (If this is an application to deepen or plug back, briefly describe work to be done, giving present producing zone and expected new producing zone) use back of form if needed.																																										
Proposed casing program: <table border="1"> <thead> <tr> <th>amt.</th> <th>size</th> <th>wt./ft.</th> <th>cem.</th> </tr> </thead> <tbody> <tr><td>_____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td><td>_____</td><td>_____</td></tr> </tbody> </table>		amt.	size	wt./ft.	cem.	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	Approved casing - To be filled in by State Geologist <table border="1"> <thead> <tr> <th>amt.</th> <th>size</th> <th>wt./ft.</th> <th>cem.</th> </tr> </thead> <tbody> <tr><td>_____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td><td>_____</td><td>_____</td></tr> <tr><td>_____</td><td>_____</td><td>_____</td><td>_____</td></tr> </tbody> </table>	amt.	size	wt./ft.	cem.	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
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I, the undersigned, state that I am the _____ of the _____ (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge. Signature _____																																										

Permit Number: 20013
 Approval Date: 1-3-77
 Approved By: Wallace B. Amis

☒ SAMPLES REQUIRED
☐ SAMPLES NOT REQUIRED

Note: This Permit not transferable to any other person or to any other location.

WATER SAMPLES REQUIRED @:

Remit two copies to: Missouri Oil and Gas Council
 P.O. Box 250 Rolla, Mo. 65401
 One will be returned.

MISSOURI OIL AND GAS COUNCIL
WELL LOCATION PLAT

Form OGC - 4

Owner: MO Geol Survey

Lease Name: ERDA TS NO 11-S County, Barton

2700 feet from (N) (S) line and 27 feet from (E) (W) line of Sec. 13 Twp. 33N Range 32W

SCALE
1" = 1000'

REMARKS: _____

INSTRUCTIONS

On the above plat, show distance of the proposed well from the two nearest lease and section lines, and from the nearest well on the same lease completed in or drilling to the same reservoir. If the location requested is not in conformance with the applicable well-spacing rules, show all off-setting wells to the proposed well. Do not confuse survey lines with lease lines. See rule 7 - 3 (b) for survey requirements.

(SEAL)

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Registered Land Surveyor

TEST BORING LOG

Project State of Missouri
E. R. D. A.
 Address Barton County
 City & State Nevada, Missouri

Boring No. S-11 Sheet 1 of 1
 Surface Elevation _____ Offset _____
 Date Started 12/30/76 Completed 1/4/77
 Driller J. Wright Rig CME-750

Abbreviations: A.O. - Auger Only R.B. - Rock Bit C.W. - Core Water
 H.A. - Hollow Auger S.S. - Split Spoon C.A. - Core Air
 W.B. - Wash Bore S.T. - Shelby Tube F.B. - Finger Bit

Sec. 13, T. 33N, R. 32W.

DEPTH		METHOD	PENETRATION RECORD		CORE RECOVERY	SAMPLE DESCRIPTION COLOR-MATERIAL-MOISTURE-CLAY CONSISTENCY SAND DENSITY
FROM	TO		POCKET PENETRO-METER	NO. OF BLOWS		
0.0'	0.5'	Air				Soil, brown, silty
0.5'	10.0'	Air				Shale, tan, weathered
10.0'	20.0'	Air				Shale, gray, sandy, tar residue
20.0'	40.0'	Air				Sandstone, gray shaly, pyritic
40.0'	45.0'	Air				Sandstone, carbonaceous, calcareous, chert
						fragments
45.0'	77.0'	Air				Sandstone, dark gray, shale streaks, tar at 50'
77.0'	77.5'	Air				Coal, shaly
77.5'	79.0'	Air				Shale, green, gray
79.0'	81.5'	Air				Siltstone, pyritic, very hard
81.5'	105.0'	Air				Sandstone, gray hard, carbonaceous
105.0'	145.0'	Air				Shale, dark gray, sandy, hard, micaceous,
						limy layers
145.0'	156.0'	Air				Chert, light gray to tan, imbedded in gray clay
156.0'	Total Depth					

REMARKS: (Casing, Water Loss, Etc.)

Water Level

Time

Date

(Completion)

Layne-Western Company, Inc.

FR & COMP **WILDCAT**

STATE	MISSOURI	8-5-92	MAP NO.	S-T-R	13-33N-32W	S
OPER.	MISSOURI GEOL SURVEY			SPOT	APP W2 W2 W2	INIT
	P O BOX 250, ROLLA, MO			CO	BARTON	
WELL	11-S ERDA - TS			ELEV	922 GR	FIN
CONTR	LAYNE WESTERN				2700' fsl & 27 fwl of Sec	
FIELD	WC					
IP	D & A					
	API 24-011-20013					

SPUD 12-30-76
No Surf Csg
Show of TAR 40-45'
RTD 155, Log
D & A FIRST REPORTED AND COMPLETED 12-31-76

TOPS NOT AVAILABLE
RTD 155 + 767
TD IN CHEROKEE

COMP ISSUED 8-29-77



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